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Sílvio Carbosa Street, Vila São Jorge Ward, 07111-010 Guarulhos - SP (BR).

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DAÇÃO DE AMPARO À PESQUISA DO ESTADO DE SÃO PAULO [BR/BR]; 1500, Pio XI Street, Alto da Lapa Ward, 05468-901 São Paulo (BR).

(72) Inventors; and

(75) Inventors/Applicants (for US only): SUÁREZ, José, Agustin Quincoces [/BR]; 427, Barão de Tatuí Street Apt.41, Santa Cecília Ward, 01226-030 São Paulo - SP (BR). PESEKE, Klaus [/DB]; Haselhof 1, Lichtenhagen, 18107 Elmenhors Lictenhagen (DE). KORDIAN, Marcus [/DE]; Zorenappelweg 12, 18055 Rostock (DB). CARVALHO, João, Ernesto [/BR]; 140, Emílio Ribas Street Apt. 104, Cambul Ward, 13000-025 Campinas - SP (BR). KOHN, Luclana, Konecny [/BR]; 12, Cristovam Bonini Street, Jd Proença Ward, 13096-040 Campinas - SP (BR). ANTÔNIO, Márcia, Aparecida [/BR]; 13, Victor Zamperlim Street, João Aranha Ward, 13140-000

(74) Agent: BEERRE ASSESSORIA EMPRESARIAL S/C LTDA; 3236, Barão de Itapura Avenue, Taquaral Ward,

13073-300 Campinas - SP (BR).

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🌘 (54) Title: NEW METHOD FOR THE PREPARATION OF 1,5-BIS(4-HYDROXY-3-METOXY-PHENYL)-PENTA-1,4-DIEN-3-ONE AND DERIVATIVES WITH ANTITUMORAL PROPERTIES

(57) Abstract: This patent of invention reports the method for the preparation of 1,5-bis(4-hydroxy-3-methoxyphenyl)-penta-1,4dien-3-one and derivatives with antitumoral properties: the sample denominated 37 compound was obtained with high yield and purity with ultrasonic technique presenting cytostatic activity (growth inhibition) in the concentrations evaluated and cytotoxic activity (cellular death) from the concentration of 0,25 mg/mL against nine different types of human cancer cell lines. This compound has a LD50, equals to 8,54 g/Kg. That means this product can be considered itself as practically nontoxic. Doxorubicin, anticarcinogen medicine used as reference in all these tests, is a product extremely toxic (LD50 of 20 mg/Kg) and it does not inhibit the growth of Mama NCI-ADR cell line (the one that expresses the phenotype of resistance against multiple drugs), therefore our product presented a strong cytostatic activity. Other derivatives also presented a strong cytostatic activity, specially the one denominated EHB1 compound.